

Notice of Allowability

Application No.

10/766,080

Examiner

Mariano Sy

Applicant(s)

HOOL ET AL.

Art Unit

3683

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to February 23, 2006.
2. ☒ The allowed claim(s) is/are 4,5,9,10 and 14-16.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.


Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


JAMES MCCLELLAN
SUPERVISORY PATENT EXAMINER
3/17/06

EXAMINER'S COMMENT

1. The drawings filed on January 28, 2004 are accepted by the Examiner.
2. The Replacement Drawings filed on February 23, 2006 are accepted by the Examiner.

REASONS FOR ALLOWANCE

3. Claims 4, 5, 9, 10, and 14-16 are allowed.
4. The following is an examiner's statement of reasons for allowance:

Watanabe (US 6,231,132) disclosed, as shown in fig. 1-2, a hydraulic braking system comprising: a first braking circuit 13; a second braking circuit 15; first and second control valves 17, 19 disposed within the first and second hydraulic conduits; a connecting conduit connecting first and second braking circuits; and a floating piston 51 disposed within the connecting conduit; said piston adapted to be displaced by pressurized fluid provided by first source when the first control valve is closed, the displacement of said piston generating an additional volume of pressurized fluid in second hydraulic conduit in an amount to provide a substantially faster increase in the braking force of the second wheel brake, see col. 4, lines 35-61 and col. 5, lines 8-14.

However Watanabe failed to disclose a vent opening in the cylinder housing located between first and second ends of the floating piston, wherein the displacement of the first seal during reciprocal motion is limited to the area between the first end and

the vent opening, and wherein the displacement of the second seal during reciprocal motion is limited to the area between the second end and vent opening.

The aforementioned limitations and the arrangements thereof are not taught in the prior art. In light of the foregoing, the claims of present application are found to be patentable over prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mariano Sy whose telephone number is 571-272-7126. The examiner can normally be reached on Mon.-Fri. from 8:30 A.M. to 2:30 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James McClellan, can be reached on 571-272-6786. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should

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you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

msy M. Sy

March 16, 2006

J McClellan
JAMES MCCLELLAN
SUPERVISORY PATENT EXAMINER
3/17/06



Replacement Sheet
**Floating Piston for Augmenting Pressurized Fluid Flow
 During Vehicle Braking Operations**

Name of Inventor: Patrick H. Hool, et al.
 Name & Telephone Number of Person to Call If Necessary:
 Allen W. Inks: (419) 255-5900

Serial No.
 10/766,080

Sheet 1 of 2

Docket No.
 1-24578

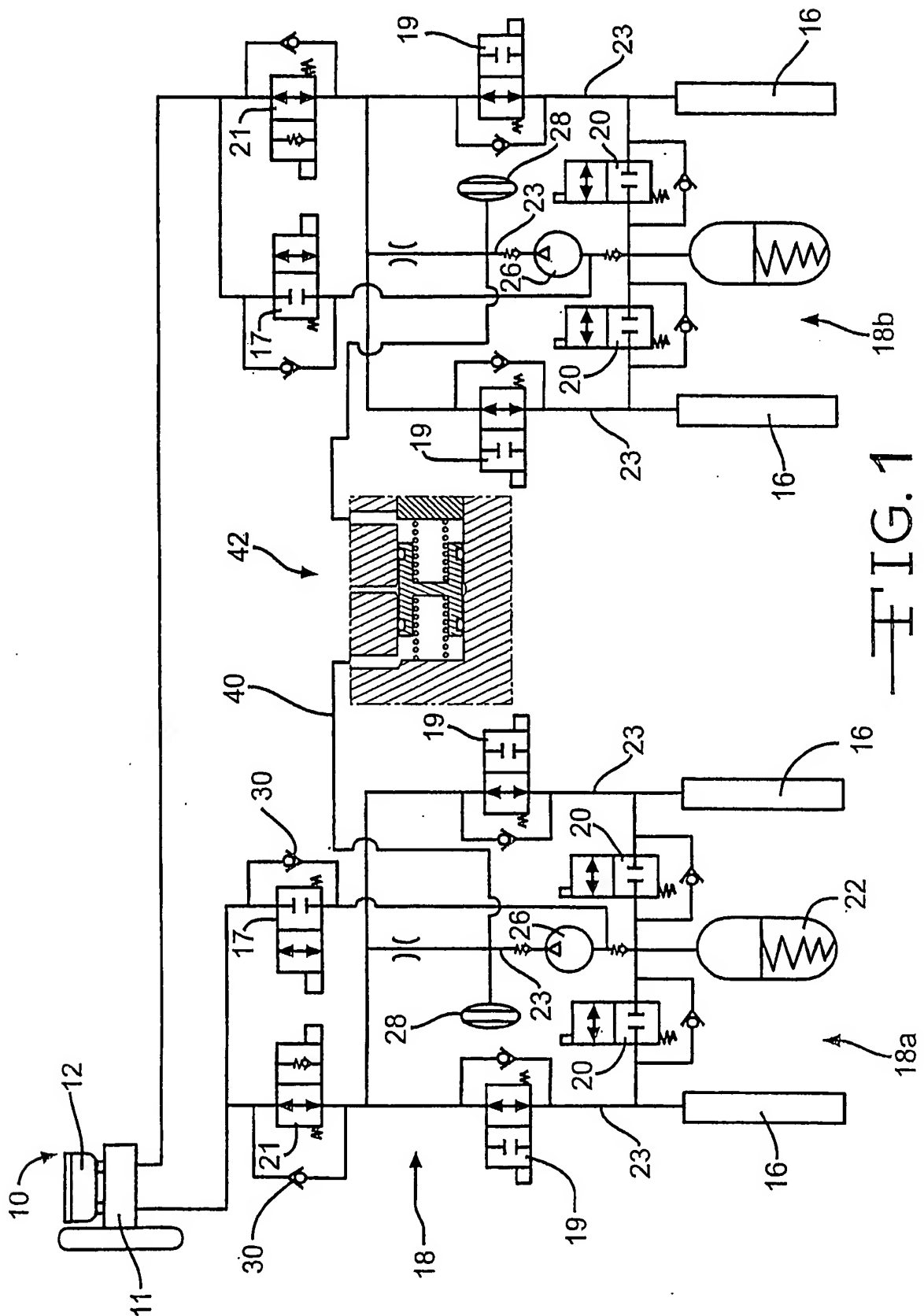


FIG. 1



"Replacement Sheet"
 Floating Piston for Augmenting Pressurized Fluid Flow
 During Vehicle Braking Operations
 Name of Inventor: Patrick H. Hool, et al.
 Name & Telephone Number of Person to Call If Necessary:
 Allen W. Inks: (419) 255-5900

Serial No.
 10/766,080

Sheet 2 of 2

Docket No.
 1-24578

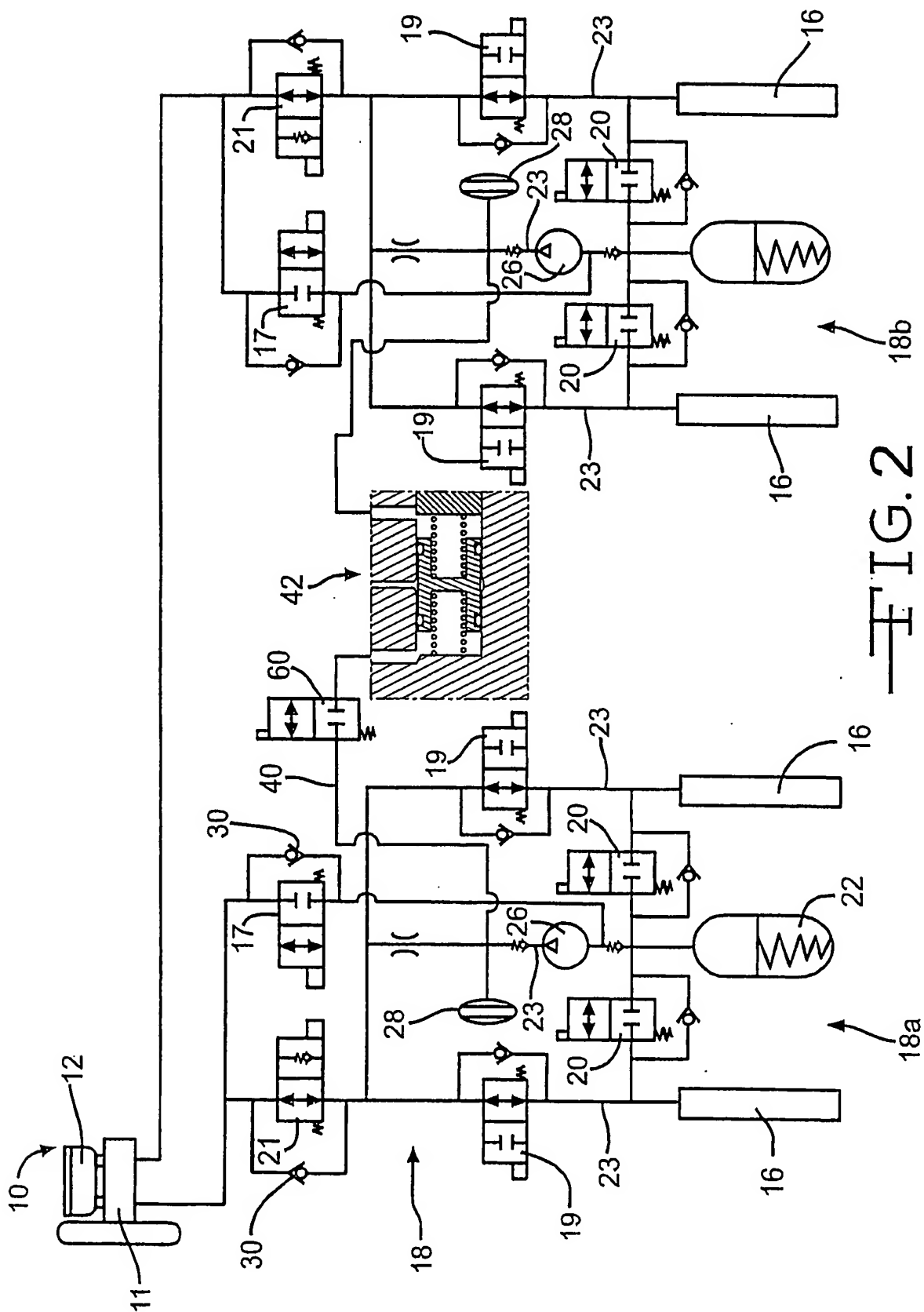


FIG. 2